



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-3

Issued: 28 Nov 2021 / 0800L (1300Z)

Valid: 01 Dec 2021 / 1720 – 1920L (01/2220 – 02/0020Z)



Forecast Discussion: A rather benign weather regime will remain in place across the Space Coast through the remainder of the weekend into the middle of next week. Surface high pressure is expected to develop over the western Gulf of Mexico and will extend into the southeastern U.S. As a result, there will be light winds during the launch window and limited low-level moisture. The primary concern for a Wednesday evening launch is a few Cumulus Clouds with the onshore flow.

In the event of a 24-hour delay, identical weather conditions are expected and the primary launch weather concern remains Cumulus Clouds.

Launch Day	Probability of Violating Weather Constraints					
	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds		Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity: 70°F / 60%	Type	Coverage		Booster Recovery Weather:	Low
24-Hour Delay	Liftoff Winds (200'): 040° 10 - 15 mph	Cumulus	Few	3,000	Solar Activity:	Low
	Probability of Violating Weather Constraints					
	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds		Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity: 70°F / 60%	Type	Coverage		Booster Recovery Weather:	Low
	Liftoff Winds (200'): 050° 10 - 15 mph	Cumulus	Few	3,000	Solar Activity:	Low
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.						
Next Forecast Will Be Issued		29 NOV 2021				